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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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08/887,319 07/02/97 MARTIN

H 1096.09901

EXAMINER

WM02/0102

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ART UNIT

PAPER NUMBER

2614

DATE MAILED:

01/02/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.

08/887,319

Applicant(s)

MARTIN ET AL.

Examiner

M Lee

Art Unit

2614

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 February 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-31 and 38-49 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-25, 27-31 and 38-49 is/are rejected.
- 7) ☒ Claim(s) 26 is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. & 119(e).

Attachment(s)

- 15) ☐ Notice of References Cited (PTO-892)
- 16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 17) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 21, 25.
- 18) ☐ Interview Summary (PTO-413) Paper No(s) _____.
- 19) ☐ Notice of Informal Patent Application (PTO-152)
- 20) ☐ Other:

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-3, 5-7, 10, 11-13, 15-17, 20-25, 27-31, 38, 44-46, 48, and 49 are rejected under 35 U.S.C. 102(b) as being anticipated by Kurahashi (JP402127877A).

Regarding claims 1, 11, 21-24, 28, 29, 38, 46, 48, 49, Kurahashi shows a digital data memory (13), a control input (12), and a converter (11).

Regarding claims 2, 12, 25, 27, the distortion correction carried out by the control 11 and elements 14 and 15 is essentially the same as the orthogonal transformation algorithms as claimed.

Regarding claims 3, 13, the image is converted as the rate of NTSC standard.

Regarding claims 5, 15, the input control 12 inputs a plurality of signals and the converter corrects many portions of distorted images.

Regarding claims 6, 17, 30, the image is received from a fisheye lens.

Regarding claims 7, 16, the frame rate in NTSC is 30 images per second.

Regarding claims 10, 20, the lens in Kurahashi is a wide angle lens.

Regarding claim 31, Kurahashi shows a second memory 17.

Regarding claim 44, the image in Kurahashi is in circular field of view.

Regarding claim 45, the image in Kurahashi is in hemispherical field of view.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 4, 8, 9, 14, 18, 19, 39-43, 47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kurahashi (JP402127877A).

Regarding claims 4, 14, 40, 41, 43, Kurahashi does not specify the control input for receiving signals representing zenith and azimuth angles of the selected image portion. In any event, since the captured image in Kurahashi are represented in polar coordinate, it would have been obvious to one of ordinary skill in the art to select the image portion by using polar coordinates such as zenith and azimuth angles.

Regarding claims 8, 18, since the image portions in Kurahashi can be selected arbitrarily, the selection of one image portion to the next is essentially the equivalent of the rotation angle.

Regarding claims 9, 19, 39, Kurahashi does not specify the magnification level as claimed. In any event, it is well known that an image must be enlarged in order to get a close look of the image. Hence, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to magnify the image in Kurahashi if a close look of the image is needed.

Regarding claims 42, 47, Kurahashi does not specify the joystick as claimed. Since the key input part 12 in Kurahashi can be any conventional input device, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to employ a joystick as the input device because joystick is one of the well known input device for computing devices.

Allowable Subject Matter

5. Claim 26 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

6. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to M Lee whose telephone number is 703-305-4743. The examiner can normally be reached on 9 hours/day, first Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Reinhard J Eisenzopf can be reached on 703-305-4711. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-5359 for regular communications and 703-308-9051 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-4700.

A handwritten signature in black ink, appearing to be 'M. Lee', with a stylized, flowing script.

M Lee
Primary Examiner
Art Unit 2614

December 29, 2000